

Name _____

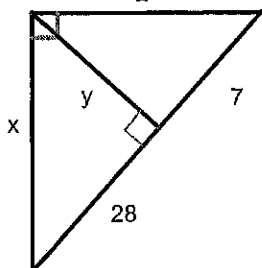
Date _____

202 Chapter 7 Test Review

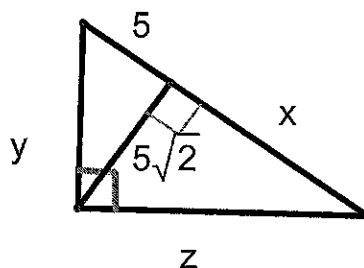
Solve for x , y , or z . Show work. Figures are not drawn to scale.For #s 1-16, use **exact answers** only. No decimals.

Use geometric mean for #s 1 and 2.

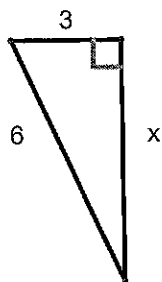
1. _____



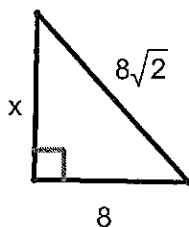
2. _____



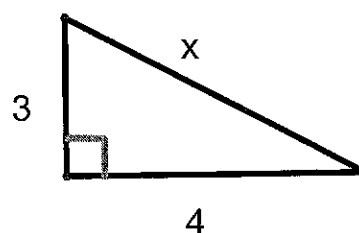
3. _____



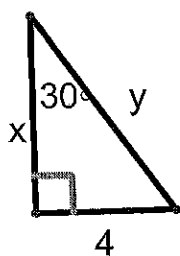
4. _____



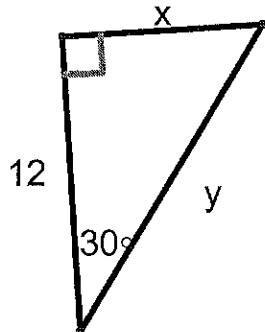
5. _____



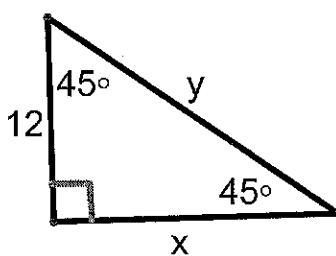
6. _____



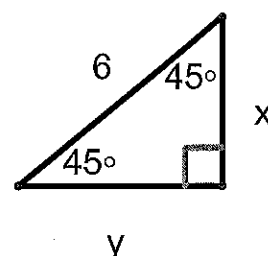
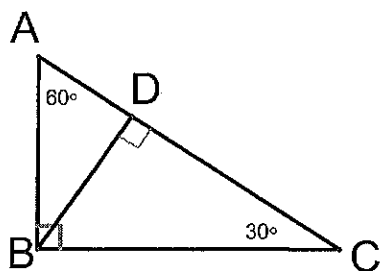
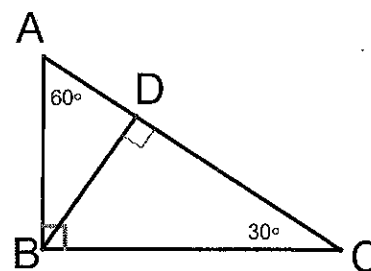
7. _____



8. _____



9. _____

10. $AB =$ _____ $CD =$ _____ $BD = 8\sqrt{3}$ 11. $AB =$ _____ $BD =$ _____ $AC = 10$ 

Classify the triangle acute, right, or obtuse.

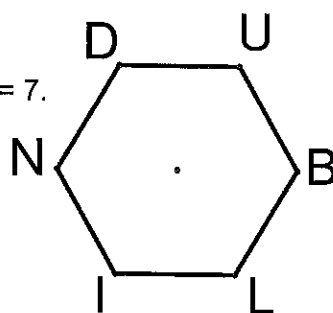
12. _____ 3, 7, 9

13. _____ A(0, 4) B (1, 1) C(3, 6)

14. What is the perimeter of an equilateral triangle with a height of 15? (Draw a picture.)

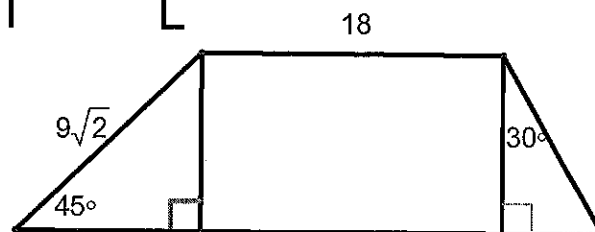
15. What is the height of an equilateral triangle with one side equal to 18?

16. Given the regular hexagon, find UL. $DU = 7$.
 $m\angle B = 120^\circ$

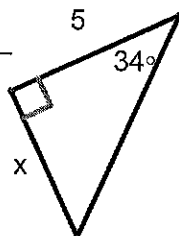


For #s 17-22, round to the nearest tenth.

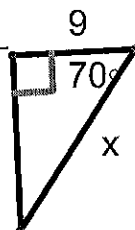
17. Find the perimeter of the trapezoid to the right.



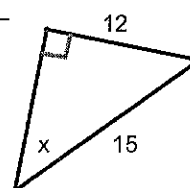
18. _____



19. _____



20. _____



21. _____ A 15ft ladder is placed against a building. It needs to reach a height of 9ft. At what angle should it be placed with the ground?

22. _____ A lighthouse watchman observes two sailboats east of the lighthouse. The angles of depression to the two boats are 34° and 55° . The height of the lighthouse is 90ft. What is the distance between the boats?